

AMENDMENT TO THE CLAIMS

1-26. (Cancelled)

27. (New) A method for selecting a cDNA encoding an organelle-localizing protein from a cDNA library, which comprises:

(a) preparing eukaryotic cells expressing a fusion peptide (a) in an organelle, wherein the fusion peptide (a) comprises one half-peptide of an intein, one half-peptide of a fluorescent protein and an organelle-targeting signal peptide;

(b) infecting the eukaryotic cells with viral vectors containing a fusion peptide (b), which comprises the other half-peptide of the fluorescent protein, the other half-peptide of the intein and a cDNA of the cDNA library, at a multiplicity of infection of 0.01 to 0.2,

(c) selecting a eukaryotic cell with a cDNA encoding an organelle-localizing protein by detecting a fluorescent signal with a cell sorter.

28. (New) A Eukaryotic cell expressing a fusion peptide (a) in an organelle, wherein the fusion peptide (a) comprises one half-peptide of an intein, one half-peptide of a fluorescent protein and an organelle-targeting signal peptide.

29. (New) A set of fusion peptides (b), each of which comprises a half-peptide of a fluorescent protein, a half-peptide of an intein and a cDNA of a cDNA library.